

WHAT IS CLAIMED IS:

1. A driving apparatus for loading/unloading a pair of pole-base assemblies
5 which are reciprocated along a guide rail formed on a main deck to move a magnetic tape to contact with a head drum, comprising:

a first and a second link members, each connected with one end to one pole-base assembly;

a first and a second loading gears, each connected to the other ends of the first and the
10 second link members, the first and the second loading gears being engaged with each other to be driven in association with each other; and

a main gear which is rotated by power received from a driving motor mounted on the main deck, the main gear being selectively engaged with the first loading gear upon rotation thereof,

15 wherein the main gear is rotated in association with one of the loading gears within a desired rotation range upon rotation so as to transfer power to load/unload the pole-base assembly.

2. The driving apparatus of claim 1, wherein the first loading gear comprises a
20 first gear part engaged with the second loading gear, and a second gear part stepped with respect to the first gear part so as to be engaged with the main gear.

3. The driving apparatus of claim 2, wherein the second gear part is formed at a lower position than the first gear part and has a larger diameter than the first gear part.

25 4. The driving apparatus of claim 2, wherein the second gear part has a gear tooth formed at only a desired region of an outer surface of the first loading gear so as to be engaged with the main gear at only the desired region.

30 5. The driving apparatus of claim 2, wherein the second gear part has a large gear groove formed at both ends as a starting point for engagement with the main gear in the rotational direction of the main gear, the gear groove being formed to be relatively deeper than other neighboring gear groove

6. The driving apparatus of claim 5, wherein the main gear has a pair of large gear teeth corresponding to the large gear groove, the large gear teeth being formed to be relatively larger than other neighboring gear teeth.

5

7. The driving apparatus of claim 6, wherein the pair of large gear teeth is formed at a position lower than other gear teeth formed at an outer circumference of the main gear.

10 8. The driving apparatus of claim 2, wherein the main gear has a pair of large gear teeth formed at an outer circumference of the gear teeth receiving the power from the driving motor, and the gear teeth in a predetermined region are engaged or disengaged with the second gear part, starting from the pair of large gear teeth which are relatively larger than the gear tooth.

15

9. The driving apparatus of claim 2, wherein the main gear comprises:

a main gear part formed at an outer circumference so as to receive the power from the driving motor;

20 a connecting gear part formed at a desired region so as to be engaged with the second gear part at a position lower than the main gear part;

a pair of large gear teeth formed at both ends portion of the connecting gear part so as to correspond to each large gear groove, the pair of large gear teeth being larger than the connecting gear part; and

25 a slide wing part protruding in the form of an arc at a position lower than the main gear part so as to slidably contact the outer circumference of the second gear part.